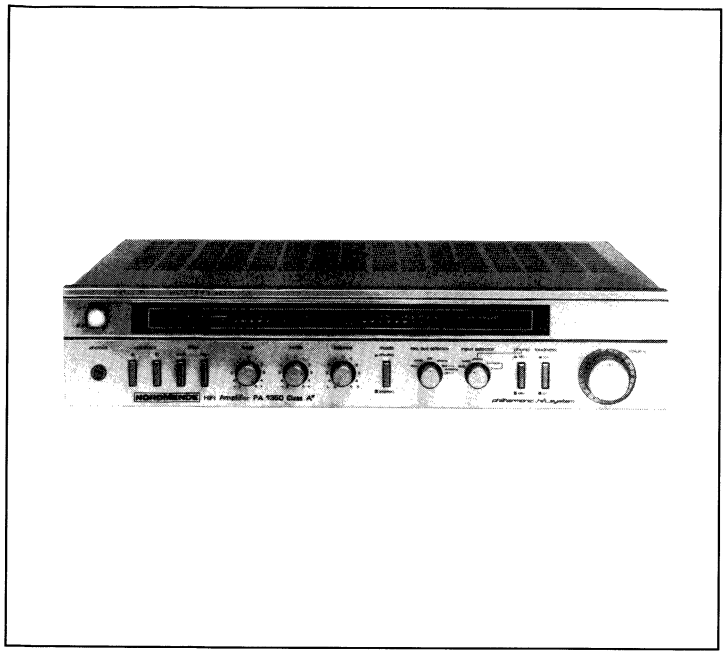


NORDMENDE

Zentralkundendienst

Service-Information
PA 1350 A 982.161 H

Technische Daten

Geräteart:
Class A Stereo-Vollverstärker

Stromversorgung:
220 V – 50 Hz

Leistungsaufnahme:
220 W

Ausgangsleistung:
2 x 45 W Sinus an 8 Ω

Klirrfaktor:
Bei 35 W: 0,001 %

Geräuschspannungs-abstand:
TA 80 dB
TB 100 dB

Übersprechdämpfung:
60 dB

Frequenzumfang:
TA 20 Hz – 20 kHz ± 1 dB
TB 10 Hz – 100 kHz ± 1,5 dB

Eingangsempfindlichkeit/Impedanz:
TA: MM: 2,5 mV/ 47 kΩ
MC: 250 µV/100 Ω
TB: 150 mV/ 47 kΩ

Klangregelung:
Bass ± 10 dB bei 100 Hz
Höhen ± 10 dB bei 10 kHz

Abmessungen:
B 440 mm
H 94 mm
T 298 mm

Gewicht:
6,5 kg

Technical data

Type of set:
Stereo pre-main amplifier

Power supply:
220 V – 50 Hz

Power consumption:
220 W

Output power:
2 x 45 W sinus at 8 Ω

Total harmonic distorsion:
At 35 W: 0,001 %

Signal to noise ratio at rated power output (weighted):
Phono 80 dB
Aux/tape play 100 dB

Crosstalk between channel:
60 dB

Frequency response:
Phono 20 Hz – 20 kHz ± 1 dB
Aux/tape play 10 Hz – 100 kHz ± 1,5 dB

Input sensitivity/impedance:
Phono MM: 2,5 mV/ 47 kΩ
MC: 250 µV/100 Ω
Aux/tape play: 150 mV/ 47 kΩ

Tone control:
Bass ± 10 dB at 100 Hz
Treble ± 10 dB at 10 kHz

Dimensions:
W 440 mm
H 94 mm
D 298 mm

Weight:
6,5 kg

Dati tecnici

Tipo di apparecchio:
Preamplificatore-amplificatore stereofonico

Alimentazione:
220 V – 50 Hz

Consumo:
220 W

Potenza di uscita:
2 x 45 W sinus su 8 Ω

Distorsione armonica:
A 35 W: 0,001 %

Rapporto segnale/ disturbo:
Giradischi 80 dB
Magnetofono 100 dB

Diafonia:
60 dB

Curva di risposta:
Giradischi 20 Hz – 20 kHz ± 1 dB
Magnetofono 10 Hz – 100 kHz ± 1,5 dB

Sensibilita/impedenza:
Giradischi: AM: 2,5 mV/ 47 kΩ
BM: 250 µV/100 Ω
Magnetofono: 150 mV/ 47 kΩ

Tono:
Grave ± 10 dB à 100 Hz
Acuto ± 10 dB à 10 kHz

Dimensioni:
L 440 mm
A 94 mm
P 298 mm

Peso:
6,5 kg

Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt · Änderungen vorbehalten
These instructions are for service dealers only · Subject to modification
Questi dati ed istruzioni sono destinati esclusivamente al servizio assistenza clienti · Con riserva di modifiche

Abgleichanweisung

1. Verstärker-Endeinstellung

Vorbereitung:
SVR 731, 732, 831, 832 auf linken Anschlag drehen. Kein Eingangssignal. Lautstärkeregler auf min. Digitalvoltmeter an R 792 und R 892.

Vor dem Einstellen Gerät ca. 10 Minuten in Betrieb nehmen.

Einstellung:
Mit SVR 731 und SVR 831 auf 4 mV ± 0,5 mV einstellen. Mit SVR 732 und SVR 832 auf 5 mV ± 0,5 mV einstellen.

Achtung:
Einstellungen nur in dieser Reihenfolge durchführen.

2. LED-Aussteuerungsanzeige-Einstellung

Vorbereitung:
SVR 501, 502, 601, 602 auf mechanische Mitte stellen. Ohne Eingangssignal muß jeweils das „OW-LED" an der linken Seite aufleuchten (bei dieser Voreinstellung können bis zu 3 LED's links aufleuchten).

2.1 Bezugspegeleinstellung
(zweite LED von rechts)

Vorbereitung:
1-kHz-Sinussignal auf Eingang (AUX) geben. Verstärkerausgang so einstellen, daß die Verstärkerausgangsspannung 17,8 V beträgt (40 W).

Einstellung:
a) Die „40-W-LED" mit SVR 501, 601 zum Aufleuchten bringen. Signal um 0,2 dB verringern; die „40-W-LED" muß erlöschen.

b) Signal um 2 dB (von Wert a.) erhöhen. Alle LED's müssen aufleuchten.

2.2 Bezugspegeleinstellung
(zweite LED von links)

Mit Abschwächer Signal um 26 db (von Wert b.) verringern. Verstärkerausgang auf 1,1 V (0,15 W) einstellen. Mit SVR 502, 602, die „0,15-W-LED" zum Aufleuchten bringen. Signal um 1 dB verringern, die „0,15-W-LED" muß erlöschen.

Alignment instructions

1. Amplifier final adjustment

Preparation:
Turn SVR 731, 732, 831, 832 to the left hand stop. No input signal. Volume control to min. Digital voltmeter to R 792 and R 892.

Before adjustment allow the amplifier to warm up for approximately 10 minutes.

Adjustment:
Adjust SVR 731 and SVR 831 for 4 mV ± 0,5 mV. Adjust SVR 732 and SVR 832 for 5 mV ± 0,5 mV.

Note:
Adjustments must only be made in this sequence.

2. LED Level control indicator adjustment

Preparation:
Set SVR 501, 502, 601, 602 to mechanical centre. Without an input signal the "OW-LED" at the left hand side must illuminate (with this pre-adjustment up to 3 LED's on the left can illuminate).

2.1 Reference level adjustment
(second LED from right)

Preparation:
Apply a 1 kHz sinewave signal to the AUX input. Adjust the amplifier output for an output voltage of 17,8 V (40 W).

Adjustment:
a) Bring the "40 W LED" to illumination with SVR 501, 601. Decrease the signal by 0,2 dB; the "40 W LED" must extinguish.

b) Increase the signal by 2 dB (from value a.). All LED's must illuminate.

2.2 Reference level adjustment
(second LED from left)

With a signal attenuated by 26 dB (from value b.) set the amplifier output to 1,1 mV (0,15 W). Bring the "0,15 W LED" to illumination with SVR 502, 602. Attenuate the signal by 1 dB, the "OW LED" must extinguish.

Norme di taratura

1. Messa a punto finale dell'amplificatore

Operazioni preliminari:
Portare SVR 731, 732, 831 e 832 in posizione d'arresto di fine corsa sinistro. Senza segnale d'entrata. Regolare il comando del volume su minimo. Collegare un voltmetro digitale a R 792 ed R 892.

Prima della messa a punto far funzionare l'apparecchio durante circa 10 minuti.

Messa a punto:
Regolare la tensione su 4 mV ± 0,5 mV mediante SVR 731 ed SVR 831. Regolare la tensione su 5 mV ± 0,5 mV mediante SVR 732 ed SVR 832.

Attenzione:
Effettuare le regolazioni soltanto nell'ordine indicato.

2. Messa a punto del display di modulazione LED

Operazioni preliminari:
Portare SVR 501, 502, 601 e 602 in posizione meccanica media. Senza segnale d'entrata il "OW-LED" sulla parte sinistra deve illuminarsi (con questa preregolazione si possono illuminare sul lato sinistro fino a 3 LED).

2.1 Messa a punto del livello di riferimento
(secondo LED da destra)

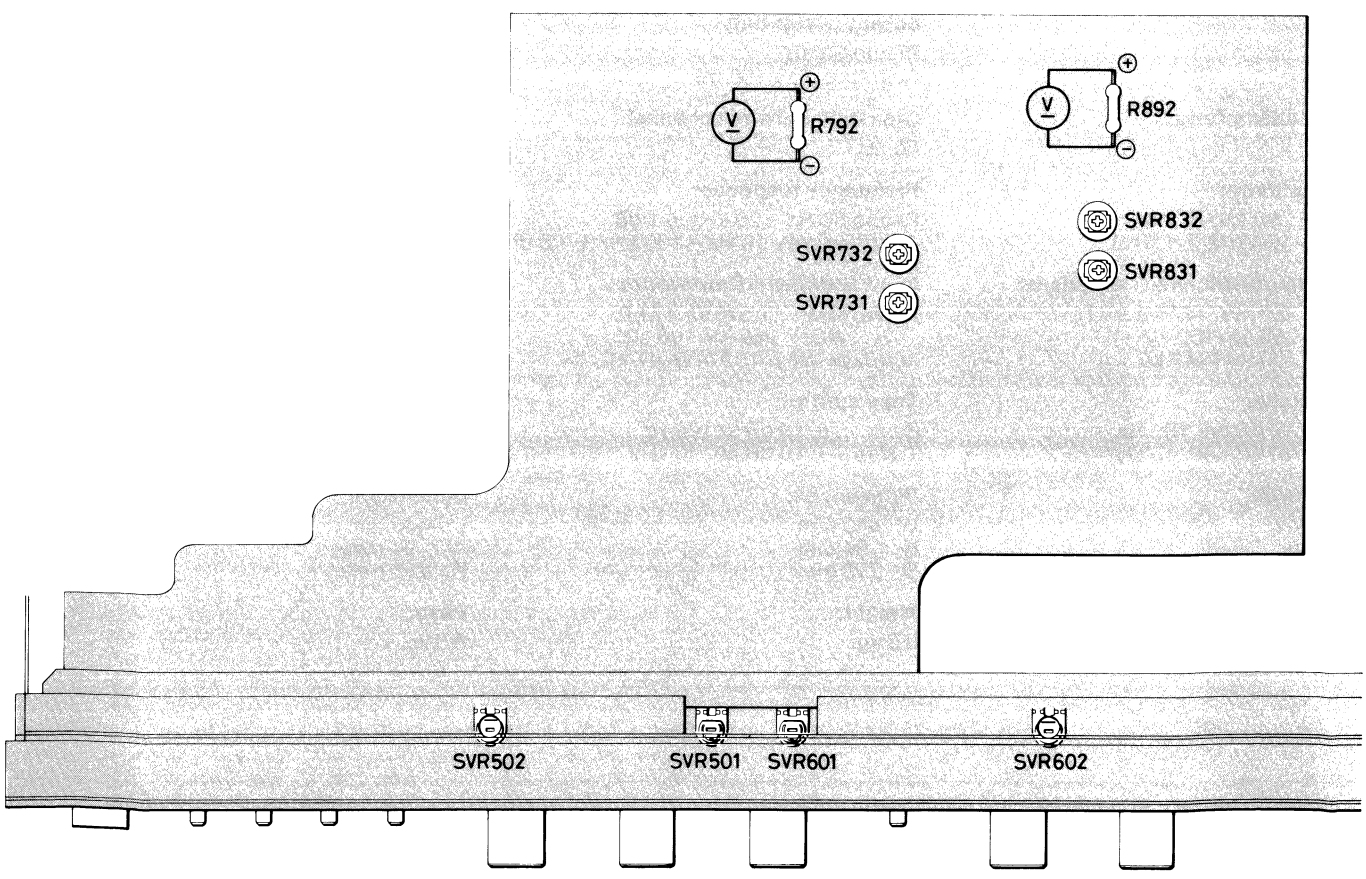
Operazioni preliminari:
Introdurre un segnale sinusoidale di 1 kHz nell'entrata AUX. Regolare l'uscita dell'amplificatore in modo tale che la tensione d'uscita dell'amplificatore sia di 17,8 (40 W).

Messa a punto:
a) Portare la luccicare il LED 40 W mediante SVR 501, 601. Ridurre il segnale di 0,2 dB; il LED 40 W deve spegnersi.

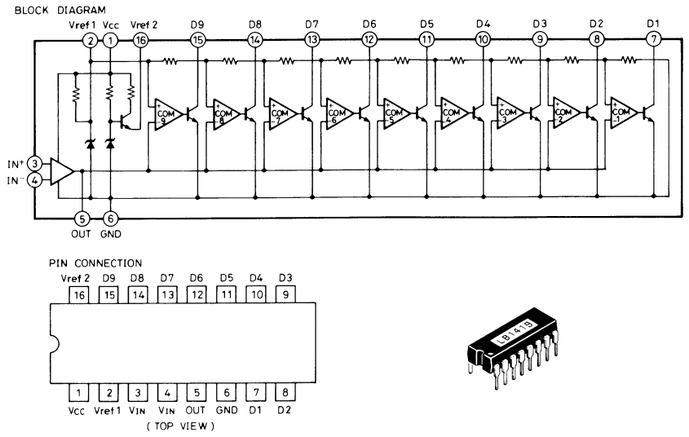
b) Aumentare il segnale di 2 dB (dal valore a). Tutti i LED devono illuminarsi.

2.2 Messa a punto del livello di riferimento
(secondo LED da sinistra)

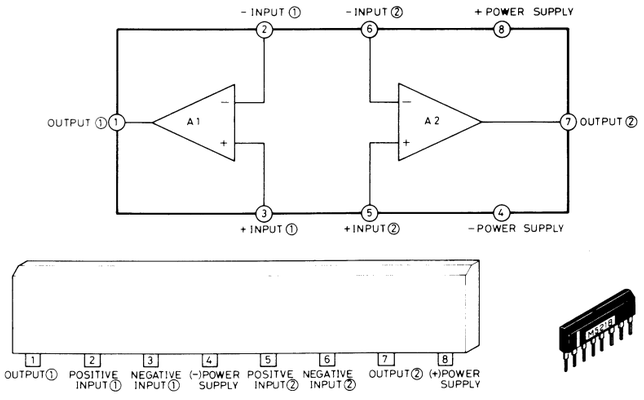
Ridurre il segnale di 26 dB (dal valore b) mediante un'attenuatore. Regolare l'uscita dell'amplificatore su 1,1 V (0,15 W). Portare a luccicare il LED 0,15 W. Ridurre il segnale di 1 dB. Il LED 0,15 W deve spegnersi.



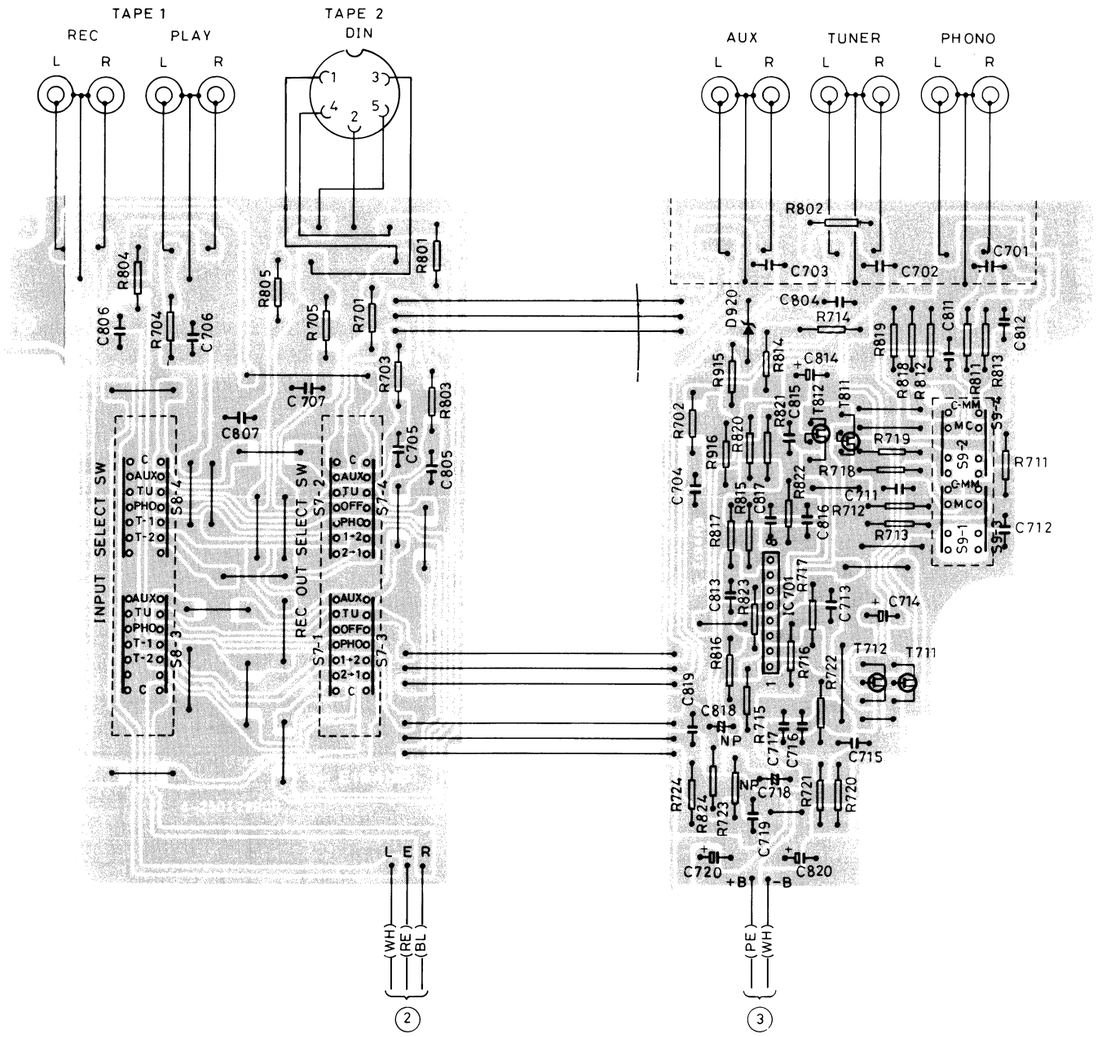
LB1419 (9 Digit Level Meter)


BLOCK DIAGRAM
Vref 1 Vcc Vref 2 D9 D8 D7 D6 D5 D4 D3 D2 D1
IN+
IN-
OUT GND
PIN CONNECTION
Vref 2 D9 D8 D7 D6 D5 D4 D3
Vcc Vref 1 VIN VIN OUT GND D1 D2
(TOP VIEW)

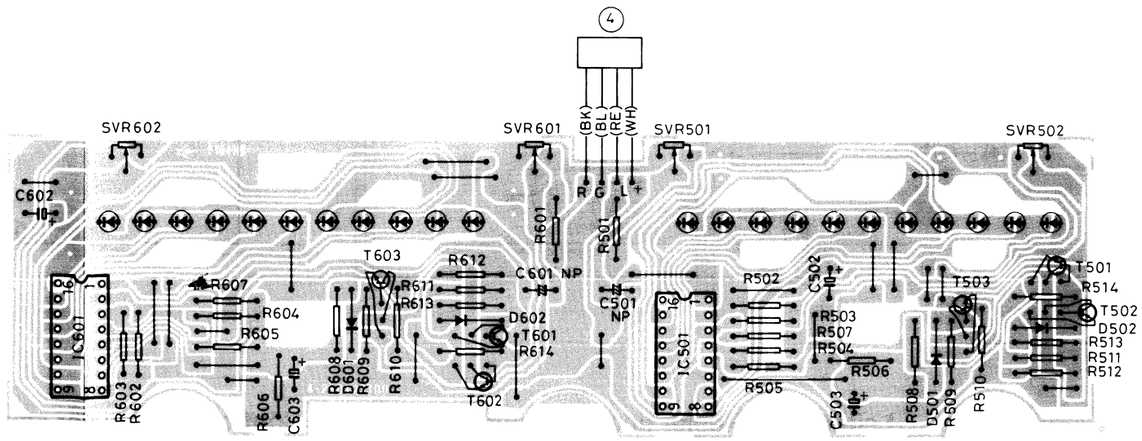
M5218L (Dual Low Noise Operation Amplifier)



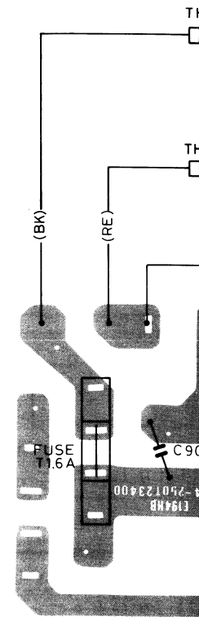
IC-Schaltungen
IC diagrams
Schema circuiti integrati



Leiterplatten Buchsen — *P.C.B. Terminals*
Piastra prese

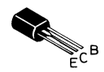


Leiterplatte Ausgangsleistungsanzeige
P.C.B. Output level — Piastra output level

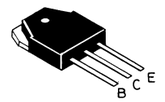


Leiterp
P.C.
Piastra

T736, 737, 738 / T836, 837, 838 ---------- 2SC2375
T741, 742, 841, 842 ---------- 2SA1019
T902 ---------- 2SD438



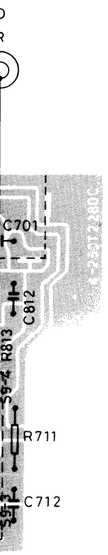
T751, 851 ---------- 2SD896
T752, 852 ---------- 2SB776

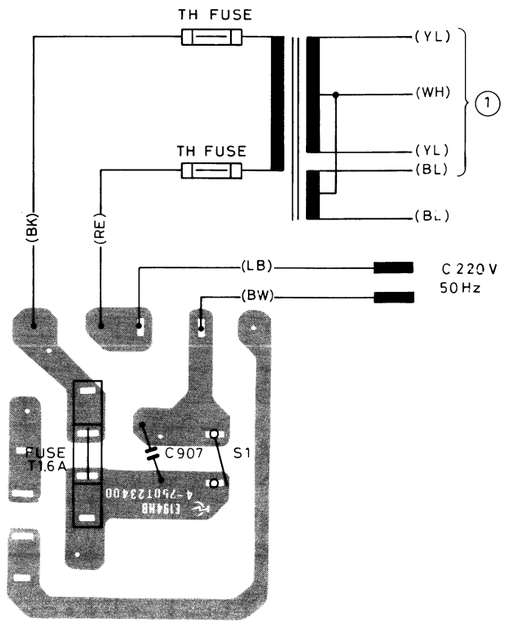


T731, 732, 733, 746 / T831, 832, 833, 846
T745, 845
T748, 848
T747, 847, 901, 903

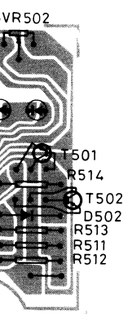
T744, 844
T749, 849
T750, 850

Transisto
Transisto
Contrasseg





Leiterplatte Netzschalter
P.C.B. Power switch
Piastra interruttore di rete



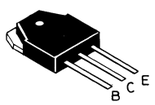
T736.737.738
T836.837.838 ---------- 2SC2375
T741.742.841.842 ---------- 2SA1019
T902 ---------- 2SD438

T731.732.733.746
T831.832.833.846 ---------- 2SA1016
T745.845 ---------- 2SC2362
T748.848 ---------- 2SA999
T747.847.901.903 ---------- 2SC2320

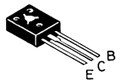
2SK170.....T711 712
T811 812

2SA937.....T501. 502
T601. 602
2SC2021.....T503. 603

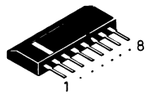
T751.851 ---------- 2SD896
T752.852 ---------- 2SB776



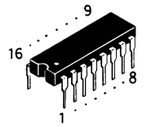
T744.844 ---------- 2SD612
T749.849 ---------- 2SD600
T750.850 ---------- 2SB631



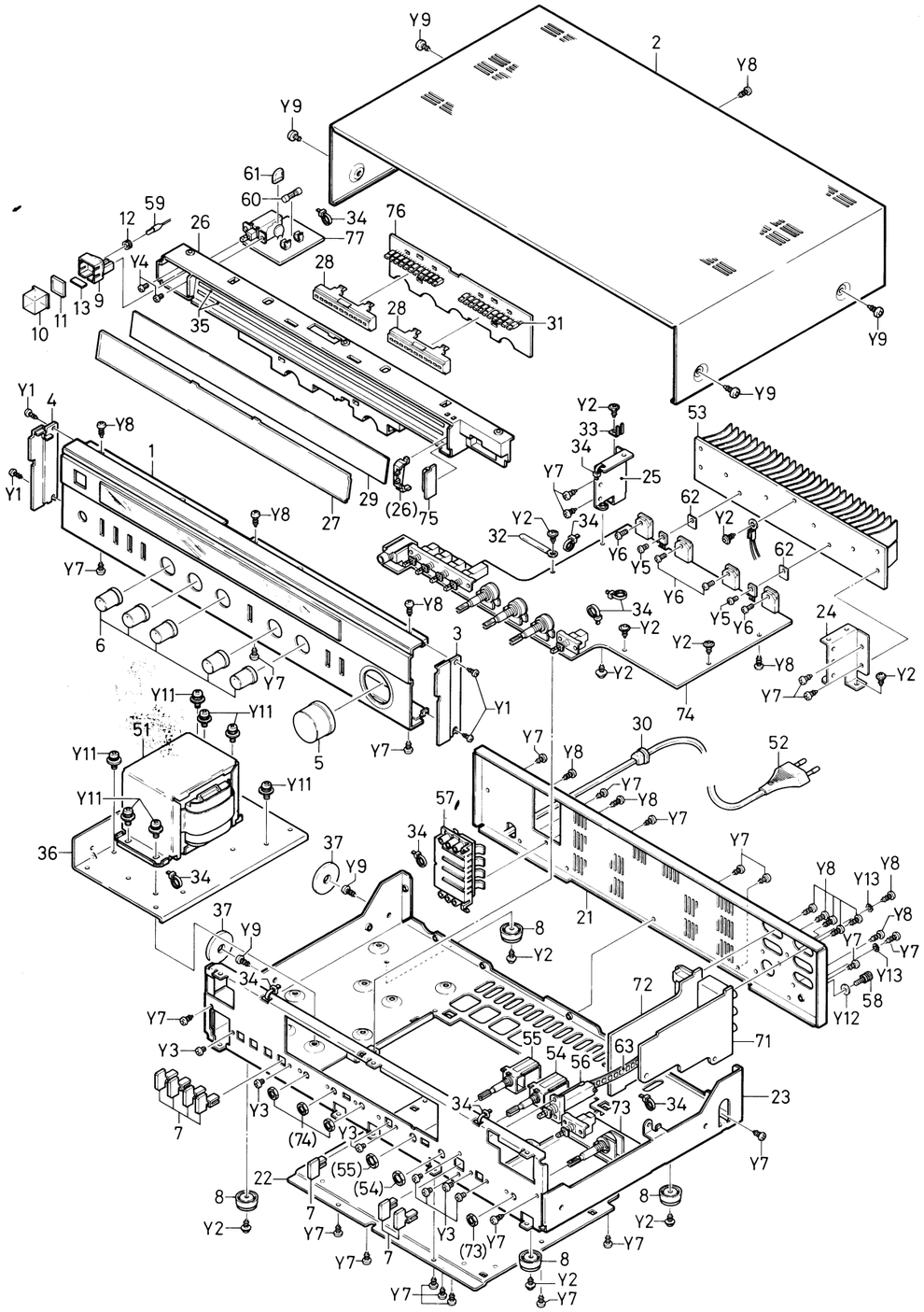
M5218L.....IC701



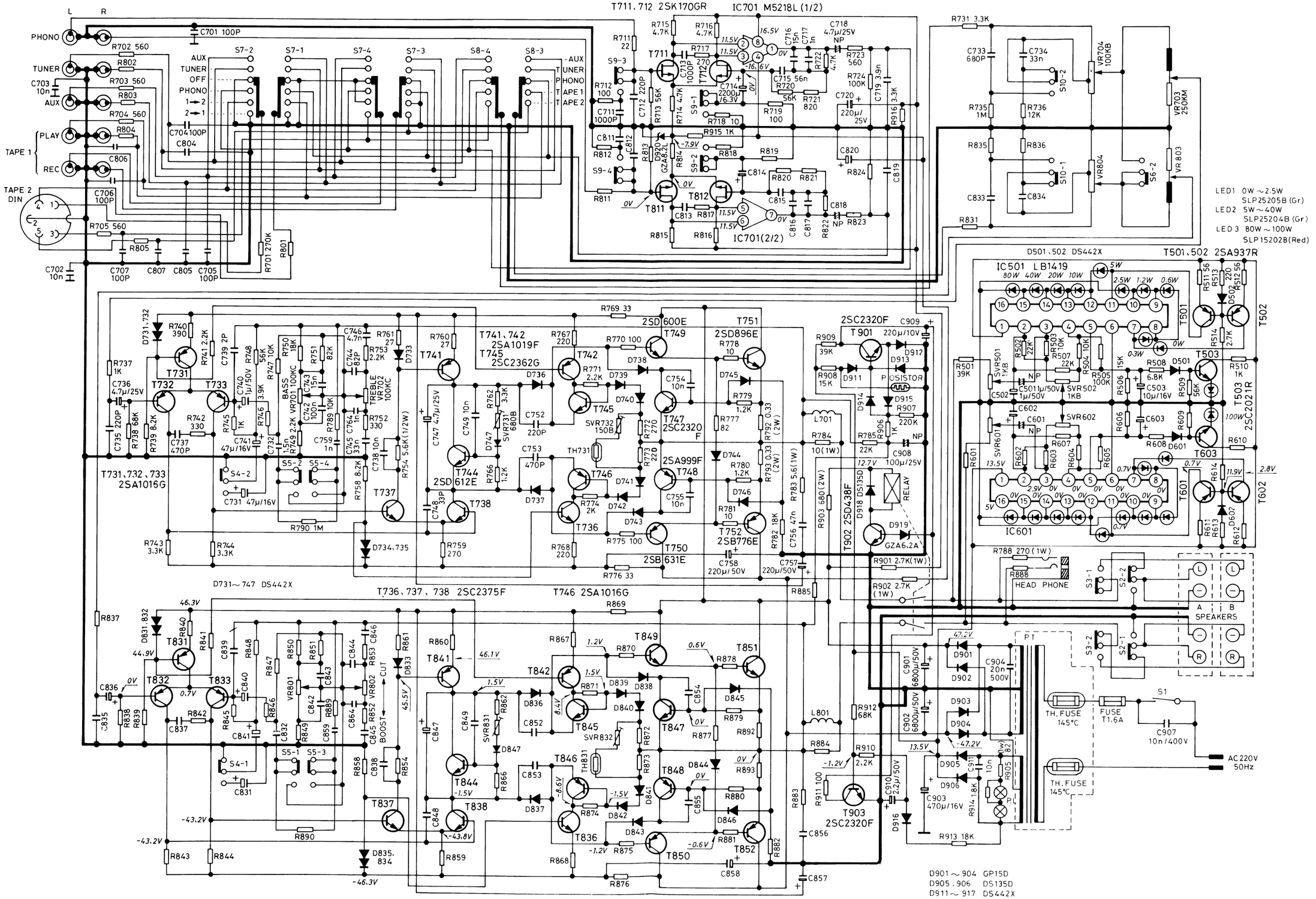
LB1419.....IC501. 601



Transistor- und IC-Anschlüsse
Transistor and IC connections
Contrassegni del semiconduttore



Explosionszeichnung — *Exploded diagram* — Disegno posizione



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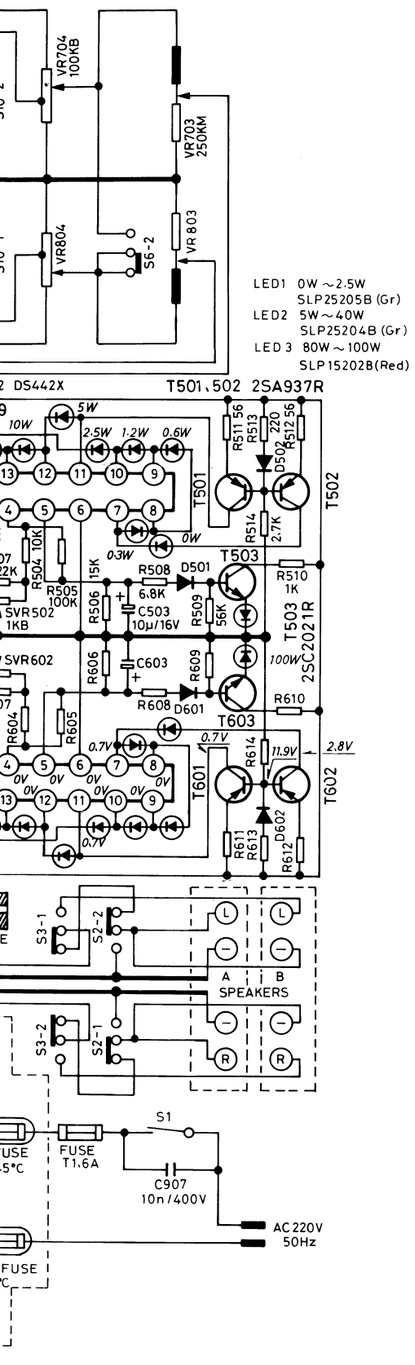
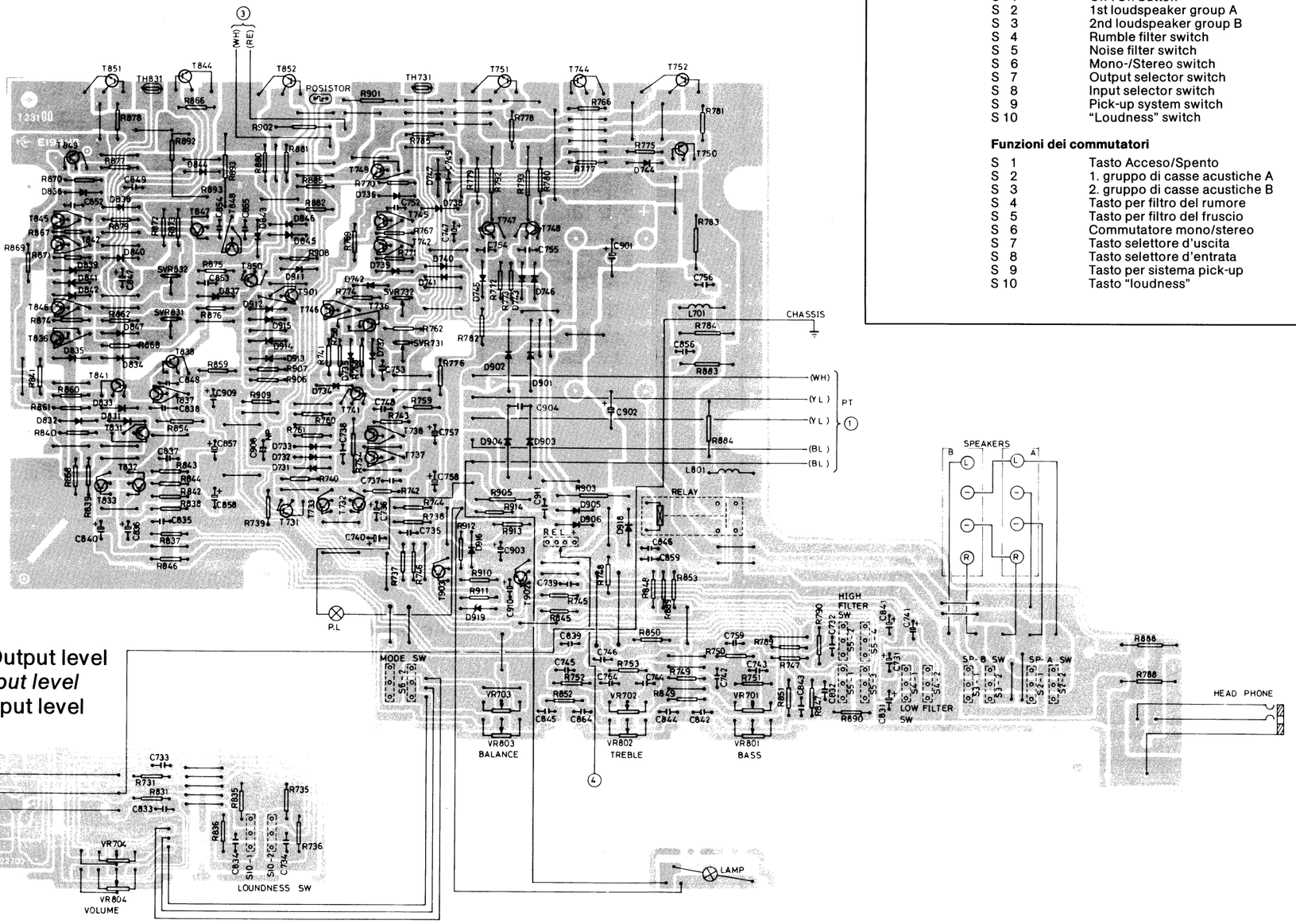
KD 187.446





Leiterplatte Output level
P.C.B. Output level
Piastra Output level

Schalterfunktionen

S 1	Ein-/Aus-Taste
S 2	1. Lautsprechergruppe A
S 3	2. Lautsprechergruppe B
S 4	Rumpelfilter-Taste
S 5	Rauschfilter-Taste
S 6	Mono-/Stereo-Schalter
S 7	Ausgang-Wahlschalter
S 8	Eingang-Wahlschalter
S 9	Tonabnehmersystem-Taste
S 10	Taste „loudness“

Switch functions

S 1	On-/Off button
S 2	1st loudspeaker group A
S 3	2nd loudspeaker group B
S 4	Rumble filter switch
S 5	Noise filter switch
S 6	Mono-/Stereo switch
S 7	Output selector switch
S 8	Input selector switch
S 9	Pick-up system switch
S 10	“Loudness” switch

Funzioni dei commutatori

S 1	Tasto Acceso/Spento
S 2	1. gruppo di casse acustiche A
S 3	2. gruppo di casse acustiche B
S 4	Tasto per filtro del rumore
S 5	Tasto per filtro del fruscio
S 6	Commutatore mono/stereo
S 7	Tasto selettore d'uscita
S 8	Tasto selettore d'entrata
S 9	Tasto per sistema pick-up
S 10	Tasto “loudness”

Leiterplatte Regler und Endverstärker — *P.C.B. Controls and power amplifier* — Piastra comandi e amplificatore finale

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